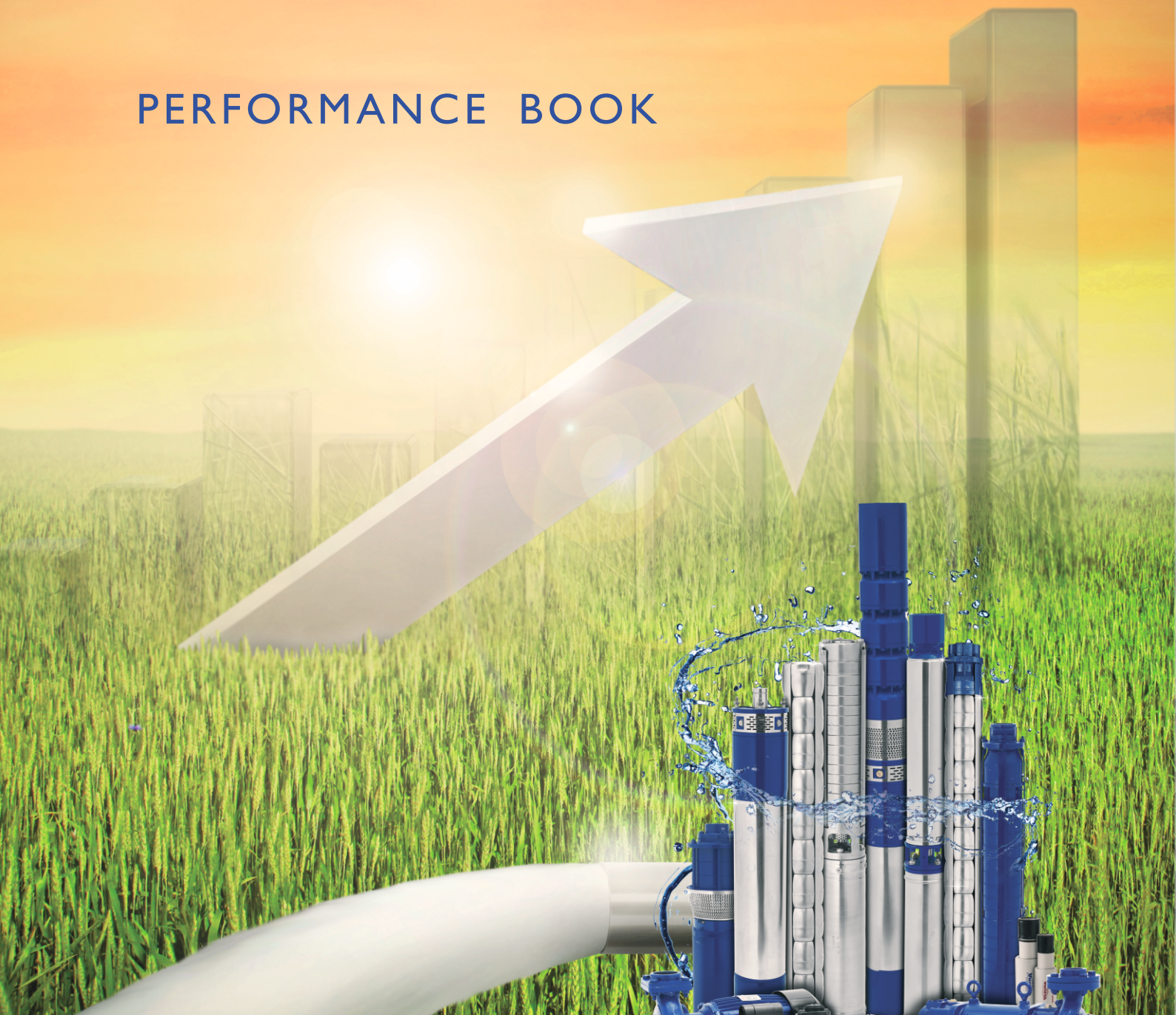


PERFORMANCE BOOK



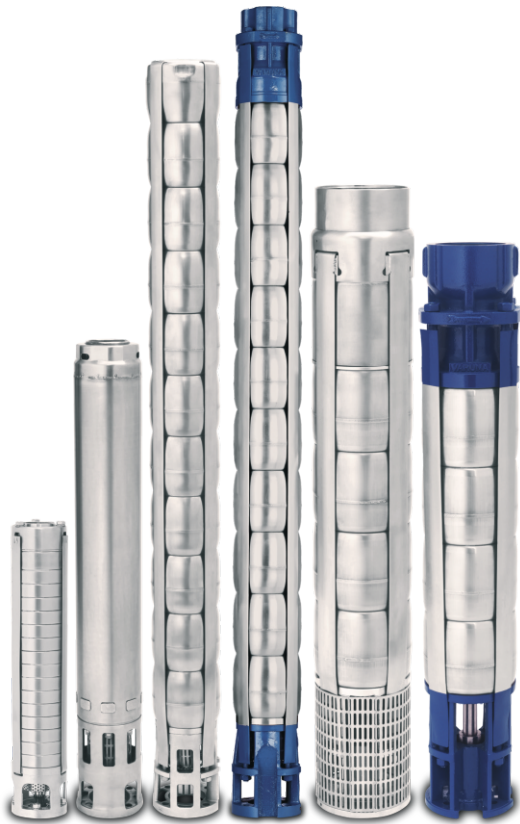
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BOREWELL SUBMERSIBLE PUMP SETS

100 mm, 150 mm & 200 mm Stainless Steel



Description

Varuna brand makes reliable, efficient and durable stainless steel Submersible Pump sets of best quality as per IS:8034-2002. Following are the salient features of Submersible pump sets with Water filled Motor.

Salient Features

- 1 Stainless Steel Construction for rust free, hygienic water supply.
- 2 Light weight which is easy to install.
- 3 Easy start at low voltage and works in wide voltage band.
- 4 Bowl and impeller of SS Material gives protection against sand and also has a better surface finish which provides higher efficiency.
- 5 Dynamically balanced rotating parts to ensure minimum noise and vibration free operation.
- 6 Products are available with NRV which reduces the thrust load of back pressure.
- 7 100% high grade stainless steel inside and outside to provide maximum reliability.
- 8 Better life in sand and other abrasives as well as salty water application.

Material of Construction

Bowl	: SS 304
Impeller	: SS 304
Shaft	: SS 431
Suction Casing	: SS 304 / CI FG 260
Non Return Valve	: SS 304 / CI FG 260
Strainer	: SS 304

Applications

Water Supply
Farm Irrigation
Sandy and Salty area
Water Treatment Plant
Cooling Water Circulation

V4 OF & WF

SUITABLE FOR 100mm BOREWELL OR ABOVE (Min. Bore Dia. 100mm)

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 200-240 VOLTS SINGLE PHASE /

380-415 VOLTS THREE PHASE, 50Hz, A.C. SUPPLY

Maximum Motor OD: 96.5mm & Pump OD: 98mm

Stainless Steel Submersible Pump sets

OUTLET SIZE: 38mm

TYPE OF FLOW: MIXED

MODEL		MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM						
OF	WF	kW	H.P.			0	31	48	68	85	100	112
VPO 5A	VP 5A	0.37	0.50	4		26	23	21	19	16	12	8
VPO 5A	VP 5A	0.55	0.75	6		39	35	32	29	24	18	12
VPO 5A	VP 5A	0.75	1.00	8		52	46	42	38	32	24	16
VPO 5A	VP 5A	0.75	1.00	10		65	58	53	48	40	30	20
VPO 5A	VP 5A	1.10	1.50	12		78	69	66	57	48	36	24
VPO 5A	VP 5A	1.50	2.00	17		111	98	89	81	68	51	34
VPO 5A	VP 5A	2.20	3.00	21		137	121	110	100	84	63	42
VPO 5A	VP 5A	2.20	3.00	25		163	144	131	119	100	76	50
	VP 5A	3.00	4.00	33		215	190	173	157	132	100	66
	VP 5A	3.70	5.00	38		248	219	200	181	152	115	76
	VP 5A	3.70	5.00	44		287	253	231	209	176	133	88
	VP 5A	3.70	5.00	45		294	259	236	214	180	136	90

V6**SUITABLE FOR 150mm BOREWELL OR ABOVE (Min. Bore Dia. 150mm)**

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380-415 VOLTS THREE PHASE, 50Hz, A.C. SUPPLY

Maximum Motor OD: 142mm & Pump OD: 147mm

Stainless Steel Submersible Pump sets

OUTLET SIZE: 65mm

TYPE OF FLOW: RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM						
	kW	H.P.			0	50	100	150	200	250	300
6RF-611B	2.2	3.0	5		56	55	53	50	45	37	23
6RF-611B	3.0	4.0	6		67	66	63	60	54	44	28
6RF-611B	3.7	5.0	8		89	88	84	80	72	59	37
6RF-611B	4.5	6.0	10		112	110	105	100	90	73	47
6RF-611B	5.5	7.5	12		134	132	126	120	108	88	56
6RF-611B	7.5	10.0	16		179	176	168	160	144	117	75
6RF-611B	9.3	12.5	20		223	220	210	200	180	146	93
6RF-611B	11.0	15.0	21		235	231	220	210	189	154	98
6RF-611B	11.0	15.0	24		268	264	252	240	216	176	112
6RF-611B	15.0	20.0	28		313	308	294	280	252	205	131
6RF-611B	15.0	20.0	31		346	341	326	310	279	227	145

OUTLET SIZE: 65mm

TYPE OF FLOW: RADIAL

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM						
	kW	H.P.			0	100	150	200	250	300	350
6RF-615B	3.0	4.0	4		49	47	45	43	39	32	24
6RF-615B	3.7	5.0	5		61	59	56	54	49	40	30
6RF-615B	3.7	5.0	6		74	70	68	64	58	48	36
6RF-615B	4.5	6.0	6		74	70	68	64	58	48	36
6RF-615B	5.5	7.5	8		98	94	90	86	78	65	48
6RF-615B	5.5	7.5	9		110	106	101	97	88	72	54
6RF-615B	7.5	10.0	10		123	118	113	108	98	81	60
6RF-615B	7.5	10.0	12		147	141	135	129	117	96	72
6RF-615B	9.3	12.5	12		147	141	135	129	117	96	72
6RF-615B	11.0	15.0	15		184	176	169	161	146	120	90
6RF-615B	11.0	15.0	18		220	212	202	194	176	144	108
6RF-615B	15.0	20.0	21		257	247	236	226	205	168	126
6RF-615B	15.0	20.0	24		294	282	270	258	234	194	144

V6

SUITABLE FOR 150mm BOREWELL OR ABOVE (Min. Bore Dia. 150mm)

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380-415 VOLTS THREE PHASE, 50Hz, A.C. SUPPLY

Maximum Motor OD: 142mm & Pump OD: 142mm

Stainless Steel Submersible Pump sets

OUTLET SIZE: 75mm

TYPE OF FLOW: MIXED

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM							
	KW	H.P.			0	202	270	335	405	470	535	652
VP 30A	2.2	3.0	2		23	21	20	19	18	16	14	9
VP 30A	3.0	4.0	3		34	32	30	28	27	24	21	13
VP 30A	3.7	5.0	4		46	43	40	38	35	32	28	17
VP 30A	3.7	5.0	5		57	54	50	47	44	40	35	22
VP 30A	5.5	7.5	6		68	64	60	57	53	48	42	26
VP 30A	5.5	7.5	7		80	75	71	66	62	57	49	30
VP 30A	5.5	7.5	8		91	86	81	76	71	65	56	35
VP 30A	7.5	10.0	9		103	96	91	85	80	73	63	39
VP 30A	9.3	12.5	10		115	105	100	95	90	80	70	45
VP 30A	9.3	12.5	11		127	116	110	105	99	88	77	50
VP 30A	9.3	12.5	12		137	128	121	114	106	97	84	52
VP 30A	11.0	15.0	12		137	128	121	114	106	97	84	52
VP 30A	11.0	15.0	13		148	139	131	123	115	105	91	56
VP 30A	13.0	17.5	14		161	147	140	133	126	112	98	63
VP 30A	13.0	17.5	15		171	161	151	142	133	121	105	65
VP 30A	15.0	20.0	16		184	168	160	152	144	128	112	72
VP 30A	15.0	20.0	17		194	182	171	161	150	137	119	74

V6**SUITABLE FOR 150mm BOREWELL OR ABOVE (Min. Bore Dia. 150mm)**

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380-415 VOLTS THREE PHASE, 50Hz, A.C. SUPPLY

Maximum Motor OD: 142mm & Pump OD: 147mm

Stainless Steel Submersible Pump sets

OUTLET SIZE: 75mm

TYPE OF FLOW: MIXED

(ON DEMAND CAN PROVIDE 100mm)

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM								
	KW	H.P.			0	252	420	585	670	750	835	920	1000
VP 46A	3.0	4.0	2		27	25	23	21	19	18	16	13	11
VP 46A	3.7	5.0	3		41	38	35	31	29	26	23	20	16
VP 46A	4.5	6.0	3		41	38	35	31	29	26	23	20	16
VP 46A	5.5	7.5	4		54	50	46	41	38	35	31	26	21
VP 46A	7.5	10.0	5		68	63	58	52	48	44	39	33	26
VP 46A	9.3	12.5	6		81	75	69	62	58	53	47	40	32
VP 46A	9.3	12.5	7		95	88	81	72	67	61	54	46	37
VP 46A	11.0	15.0	8		108	100	92	82	77	70	62	53	42
VP 46A	13.0	17.5	9		122	113	104	93	86	79	70	59	47
VP 46A	15.0	20.0	10		135	126	115	103	96	88	78	66	53
VP 46A	18.5	25.0	12		162	151	138	124	115	105	93	79	63
VP 46A	22.5	30.0	15		203	188	173	155	144	131	116	99	79

V6**SUITABLE FOR 150mm BOREWELL OR ABOVE (Min. Bore Dia. 150mm)**

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380-415 VOLTS THREE PHASE, 50Hz, A.C. SUPPLY

Maximum Motor OD: 142mm & Pump OD : 147mm

Stainless Steel Submersible Pump sets

OUTLET SIZE: 75mm

TYPE OF FLOW: MIXED

(ON DEMAND CAN PROVIDE 100mm)

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM							
	KW	H.P.			0	335	502	670	835	1000	1168	1300
VP 60A	3.7	5.0	2		29	27	24	21	18	16	12	8
VP 60A	5.5	7.5	3		43	40	36	32	28	24	18	13
VP 60A	7.5	10.0	4		57	53	48	42	37	32	25	17
VP 60A	9.3	12.5	5		72	66	60	53	46	40	31	21
VP 60A	11.0	15.0	6		86	80	72	64	55	47	37	25
VP 60A	11.0	15.0	7		100	93	84	74	65	55	43	30
VP 60A	13.0	17.5	7		100	93	84	74	65	55	43	30
VP 60A	13.0	17.5	8		115	106	96	85	74	63	49	34
VP 60A	15.0	20.0	8		115	106	96	85	74	63	49	34
VP 60A	15.0	20.0	9		129	120	108	96	83	71	55	38
VP 60A	18.5	25.0	10		143	133	121	106	92	79	61	42
VP 60A	22.5	30.0	12		172	159	145	127	111	95	74	51

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V8

SUITABLE FOR 200mm BOREWELL OR ABOVE (Min. Bore Dia. 200mm)

APPROXIMATE PERFORMANCE CHART AT 2880 RPM, 380-415 VOLTS THREE PHASE, 50Hz, A.C. SUPPLY

Maximum Motor OD: 142mm & Pump OD: 180mm

Stainless Steel Submersible Pump sets

OUTLET SIZE: 100mm

TYPE OF FLOW: MIXED

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM								
	kW	H.P.			0	500	670	835	1000	1170	1335	1560	1670
VP 77A	5.5	7.50	1		21	19	18	16	15	13	12	10	7
VP 77A	5.5	7.50	2D		33	29	28	25	23	20	18	14	8
VP 77A	7.5	10.00	2		41	37	35	32	30	26	24	20	14
VP 77A	9.3	12.50	3D		53	48	45	42	39	34	31	25	16
VP 77A	11.0	15.00	3		61	56	53	48	45	39	36	30	21
VP 77A	13.0	17.50	4D		73	66	63	58	54	47	43	35	23
VP 77A	15.0	20.00	4		81	74	70	64	60	52	48	40	28
VP 77A	18.5	25.00	5		102	93	88	80	75	65	60	50	35
VP 77A	22.5	30.00	6		122	111	105	96	90	78	72	60	42

OUTLET SIZE: 100mm

TYPE OF FLOW: MIXED

MODEL	MOTOR RATING		STAGE	HEAD IN METERS	DISCHARGE IN LPM									
	kW	H.P.			0	835	1000	1170	1335	1500	1670	1835	2000	2035
VP 95A	5.5	7.50	1		23	17	16.5	15	114	13	12.5	10	7	6
VP 95A	5.5	7.50	2DD		27	19	18.0	17	16	14	12.0	9	3	-
VP 95A	7.5	10.00	2D		39	29	28.0	26	24	22	21.0	17	11	9
VP 95A	9.3	12.50	2		44	34	33	30	28	26	25	20	14	12
VP 95A	9.3	12.50	3DD		49	35	36	31	29	28	26	18	10	6
VP 95A	11.0	15.00	3D		56	42	42	37	34	33	32	24	16	11
VP 95A	13.0	17.50	3		65	51	50	45	42	39	38	30	21	18
VP 95A	15.0	20.00	4D		78	59	57	53	49	46	44	34	23	19
VP 95A	18.5	25.00	4		87	68	66	60	56	52	50	40	28	24
VP 95A	18.5	25.00	5D		98	75	73	65	64	59	57	44	29	24
VP 95A	22.5	30.00	5		109	85	83	75	70	65	63	50	35	30



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